

REMARKS

The present application was filed on April 12, 1999 with claims 1 through 19. In the Amendment and Response to Office Action dated March 20, 2003, claims 2, 3, and 11-14 were cancelled and new claims 20-33 were added. Claims 26-29 are proposed to be amended herein. Claims 1, 4-10 and 15-33 are pending in the above-identified patent application. A Petition for Extension of Time and appropriate fee are included herein.

In the Office Action, the Examiner objected to claims 26-29 due to informalities. The Examiner also rejected claims 1, 4-5, 9-10, and 15-33 under 35 U.S.C. § 102(e) as being anticipated by Glass et al. (United States Patent Number 6,332,193). The Examiner also indicated that claims 6-8 would be allowable if rewritten in independent form including all of the limitations of the base claims and any intervening claims.

The present invention is directed to an integrated signal sensor with processing power to augment a challenge from a server and to compute a response to guarantee that the sensed signal is live and not stored. The sensor-processor computes the response to the augmented challenge based on the signal characteristics of the sensed signal and then transmits both the signal and the response. The host or the server can verify the response to authenticate liveness of the input image/signal and reject it if the response is different.

Formal Objections

Claims 26 and 27 were objected to because they are business process claims dependent on a method claim and claims 28 and 29 were objected to because they are method claims dependent on a business process claim.

Claims 26-29 have been amended to correct the typographical error noted above. Applicants respectfully request withdrawal of the objection.

Independent Claims 1, 15-17 and 20-22

Claims 1, 4-5, 9-10, and 15-33 under 35 U.S.C. § 102(e) as being anticipated by Glass et al. Regarding claim 1, the Examiner asserts that Glass meets the claim limitations in the above-referenced claims.

Applicants respectfully submit that the affidavits attached hereto remove Glass et al.

reference as prior art. Consequently, Applicants respectfully request withdrawal of the rejection of independent claims 1, 4-5, 9-10, and 15-33 under 35 U.S.C. § 102(e) by Glass et al. Applicants respectfully submit that independent claims 1, 4-5, 9-10, and 15-33 are patentable over the cited art.

Dependent Claims 4-10, 18-19 and 23-33

5 Dependent claims 4-5, 9-10, 18-19, and 23-33 were rejected under 35 U.S.C. §102(e) as being anticipated by Glass et al.

 Claims 4-10 and 23-25, claims 18-19 and 26-27, claims 28-29, claims 30-31, and 32-33 are dependent on claims 1, 17, 15, 20, and 21, respectively, and are therefore patentably distinguished over Glass et al. because of their dependency from independent claims 1, 17, 15, 20, and 21, for the reasons set forth above, as well as other elements these claims add in combination to its respective base claim. The Examiner has already indicated that claims 6-8 would be allowable if rewritten in independent form including all of the limitations of the base claims and any intervening claims.

Conclusion

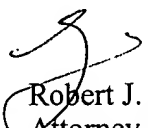
 All of the pending claims, i.e., claims 1, 4-10 and 15-33, are in condition for allowance and such favorable action is earnestly solicited.

10 If any outstanding issues remain, or if the Examiner has any further suggestions for expediting allowance of this application, the Examiner is invited to contact the undersigned at the telephone number indicated below.

 The Examiner's attention to this matter is appreciated.

Respectfully submitted,

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